

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652176

Luminaire Tested: **GALN-SA1B-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3477.5 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

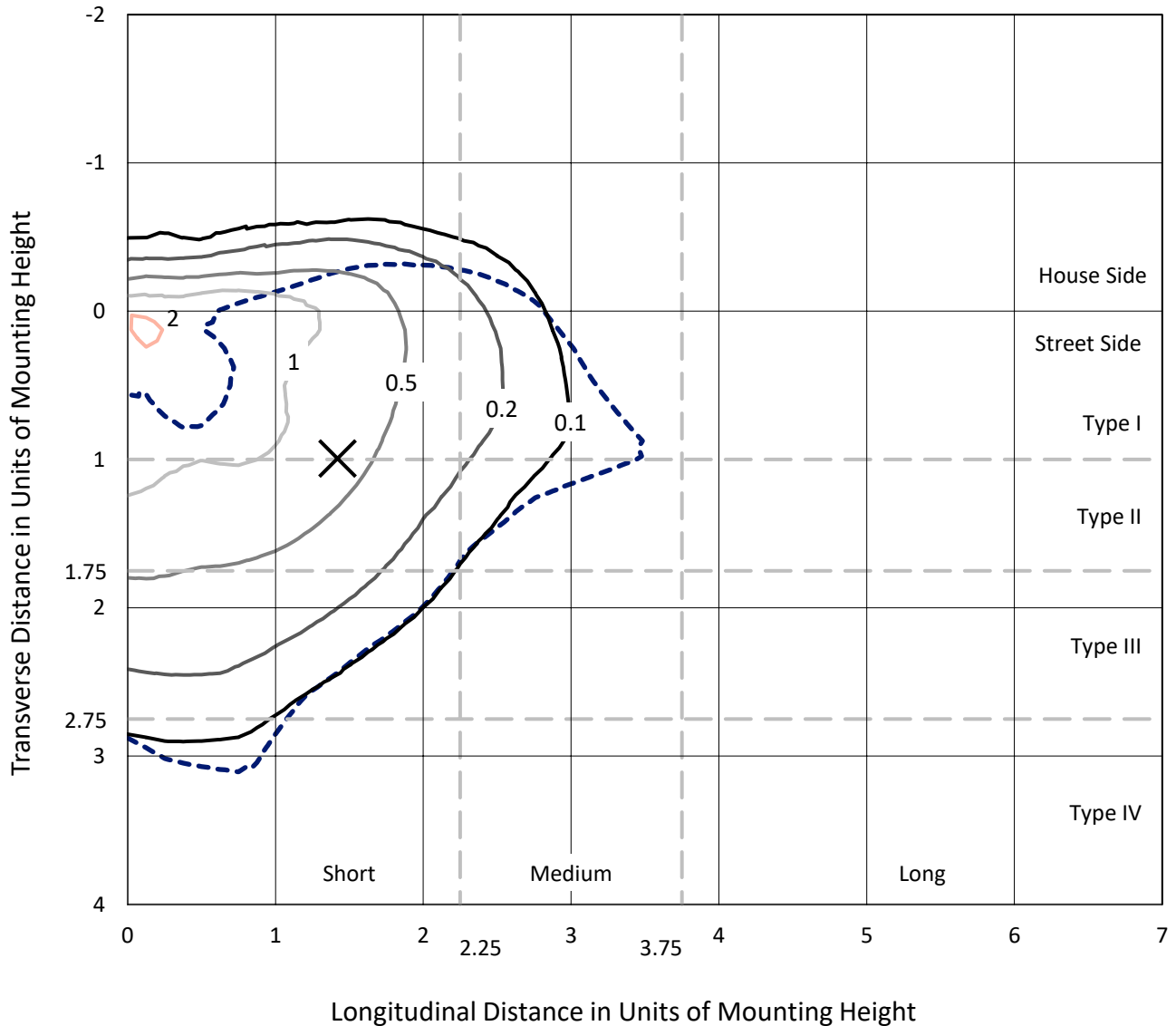
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652176
 CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

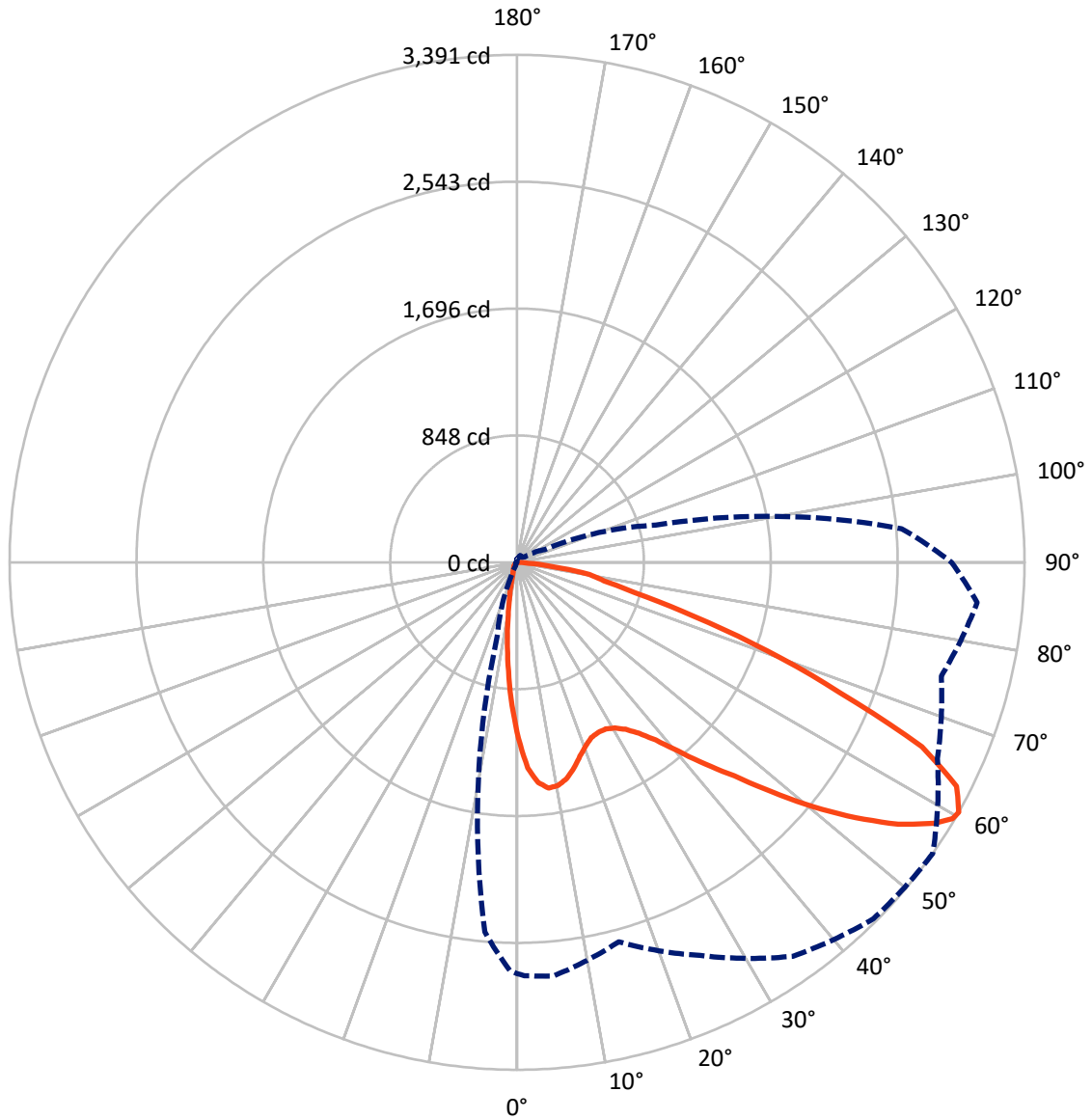
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

REPORT NUMBER: P652176
CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



REPORT NUMBER: P652176
 CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

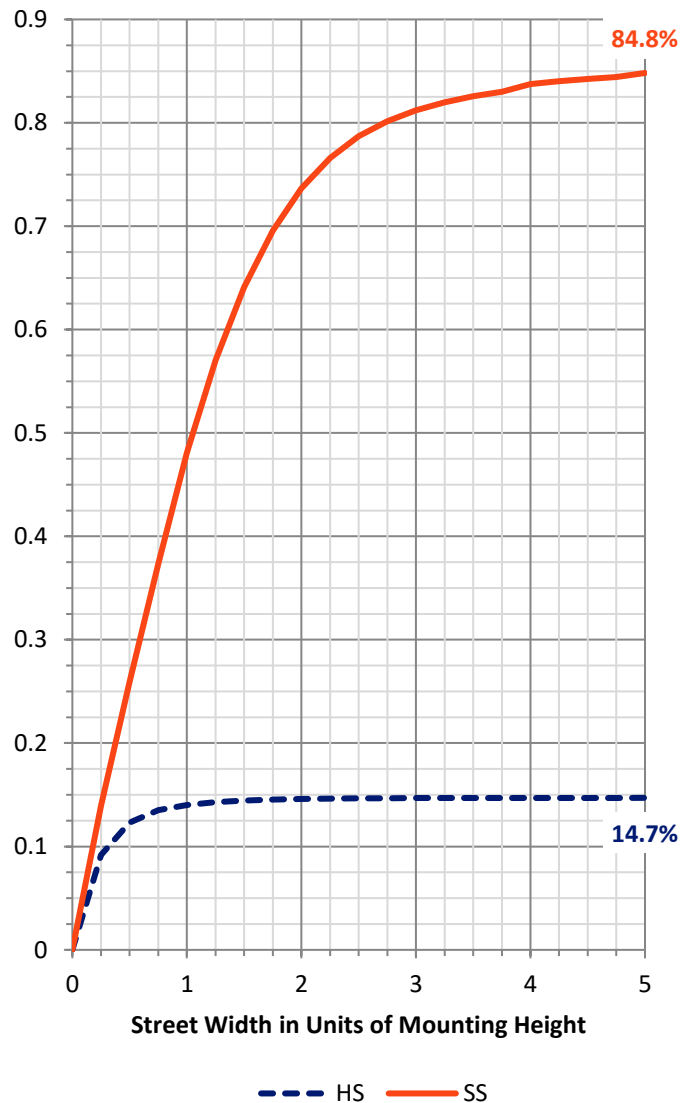
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	516.1	0.0	516.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	2961.4	0.0	2961.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	3477.5	0.0	3477.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	2.5
10°-20°	171.7	4.9
20°-30°	254.2	7.3
30°-40°	378.8	10.9
40°-50°	554.8	16.0
50°-60°	801.0	23.0
60°-70°	842.6	24.2
70°-80°	346.6	10.0
80°-90°	40.6	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3477.5	100.0
0°-180°	3477.5	100.0

Coefficient of Utilization

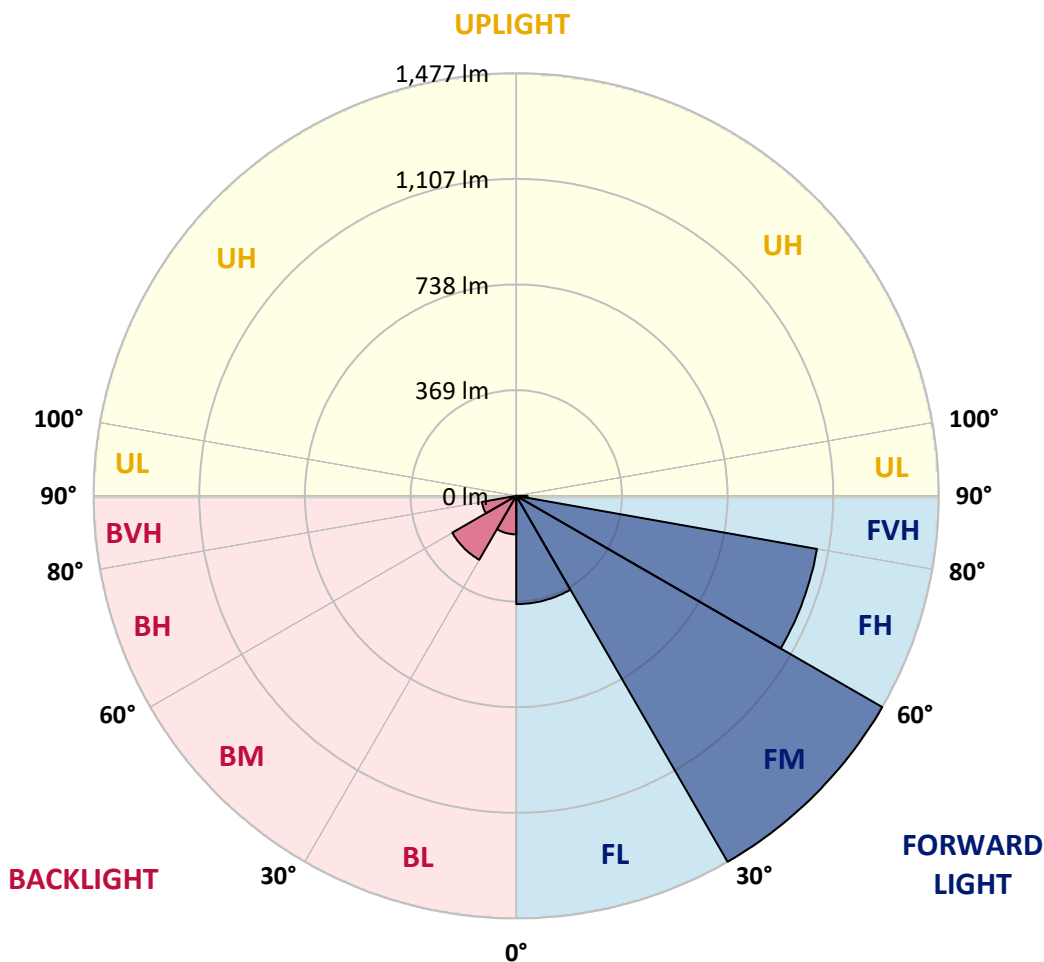


REPORT NUMBER: P652176
 CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	378.4	10.9			
FM (30°-60°)	1476.6	42.5			
FH (60°-80°)	1067.1	30.7			G1/1800
FVH (80°-90°)	39.4	1.1			G1/100
BL (0°-30°)	134.7	3.9	B1/500		
BM (30°-60°)	258.1	7.4	B1/1000		
BH (60°-80°)	122.2	3.5	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





REPORT NUMBER: P652176

CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1286.4	1284.3	1303.3	1334.3	1365.6	1382.0	1378.7	1377.5	1351.5	1332.5	1292.6
5°	1283.8	1294.7	1328.7	1412.8	1476.5	1507.2	1516.3	1478.1	1427.5	1354.2	1263.7
7.5°	1206.9	1220.5	1276.0	1407.4	1520.6	1587.6	1585.1	1523.8	1419.4	1306.0	1177.0
10°	1111.6	1127.7	1192.7	1352.2	1499.3	1587.6	1592.3	1514.7	1385.0	1239.3	1103.6
12.5°	1044.4	1063.4	1135.4	1300.9	1444.1	1531.0	1536.7	1480.5	1359.0	1213.6	1063.7
15°	1021.7	1039.6	1112.7	1275.0	1385.5	1432.3	1431.0	1425.1	1348.8	1219.8	1065.9
17.5°	1060.8	1075.5	1158.0	1286.7	1330.6	1325.8	1332.7	1361.1	1350.9	1271.4	1133.3
20°	1161.7	1176.6	1265.3	1322.8	1288.6	1258.1	1261.2	1308.7	1370.7	1368.6	1238.8
22.5°	1300.6	1326.0	1406.3	1392.9	1282.9	1216.0	1209.4	1270.9	1404.5	1480.5	1381.2
25°	1476.5	1502.2	1564.8	1504.9	1310.5	1206.2	1199.9	1259.4	1445.4	1589.7	1541.6
27.5°	1624.2	1643.7	1706.1	1613.8	1351.2	1210.4	1200.3	1261.0	1478.6	1682.6	1676.7
30°	1742.6	1757.0	1793.7	1664.7	1386.3	1229.1	1217.3	1284.5	1493.4	1727.8	1786.2
32.5°	1837.8	1862.2	1873.7	1719.0	1436.6	1264.4	1244.4	1329.8	1529.2	1783.8	1901.0
35°	1946.7	1974.8	1960.1	1770.9	1503.0	1319.6	1295.0	1403.1	1583.5	1835.4	2034.3
37.5°	2084.9	2117.3	2059.7	1825.5	1573.1	1402.6	1391.1	1506.1	1666.0	1909.3	2177.3
40°	2227.8	2246.6	2156.3	1891.9	1659.3	1523.3	1534.3	1659.3	1773.8	1997.9	2329.2
42.5°	2339.4	2357.1	2255.6	1947.6	1747.3	1666.5	1712.3	1844.0	1897.5	2088.6	2442.8
45°	2424.9	2439.8	2324.4	2008.3	1866.2	1874.0	1960.5	2034.3	2021.4	2144.0	2530.3
47.5°	2491.2	2504.1	2377.4	2073.7	2044.2	2127.7	2259.9	2291.2	2149.9	2204.0	2609.5
50°	2518.5	2522.2	2394.1	2156.9	2246.3	2451.1	2588.9	2569.9	2297.2	2270.6	2693.8
52.5°	2554.1	2553.3	2441.4	2236.1	2436.4	2740.1	2877.7	2834.7	2463.6	2370.5	2788.6
55°	2647.6	2648.6	2542.8	2348.6	2598.3	2973.5	3120.8	3089.5	2639.2	2539.1	2899.2
57.5°	2761.0	2765.0	2687.2	2479.9	2753.0	3142.7	3302.3	3290.2	2876.6	2726.8	3003.5
59°	2775.7	2783.8	2755.4	2572.6	2844.8	3194.6	3364.3	3376.1	3003.8	2850.4	3060.0
60°	2749.0	2762.3	2775.2	2625.0	2898.6	3213.4	3368.1	3391.1	3099.3	2934.5	3085.7
62.5°	2632.2	2653.4	2717.9	2786.5	2965.8	3155.0	3248.4	3296.6	3217.7	3155.3	3088.2
65°	2479.4	2490.4	2583.6	2815.1	2835.4	2882.5	2911.5	2973.3	3075.5	3240.5	2977.6
67.5°	2228.9	2261.3	2375.3	2648.9	2450.8	2395.1	2387.9	2326.3	2591.9	3037.5	2705.1
70°	1841.3	1855.8	1996.3	2171.6	1849.6	1763.9	1798.2	1775.2	2009.1	2614.8	2177.3
72.5°	1392.4	1425.1	1562.4	1731.0	1258.6	1147.5	1242.0	1233.4	1509.1	2101.5	1495.7
75°	990.6	1011.8	1186.8	1354.7	881.5	746.8	780.8	812.7	1053.5	1659.3	883.8
77.5°	680.7	698.9	830.3	895.9	642.9	615.9	563.5	594.3	690.3	984.5	481.0
80°	410.6	409.8	496.3	512.3	447.8	520.1	436.3	489.8	417.3	421.3	186.3
82.5°	266.6	263.9	303.5	330.8	249.2	262.1	175.9	253.5	272.0	117.5	58.9
85°	119.4	124.5	145.9	192.4	109.2	58.1	35.8	77.9	115.9	59.1	0.0
87.5°	12.3	9.7	25.7	46.8	15.0	1.6	5.4	2.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652176

CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	1274.1	1258.6	1212.3	1168.9	1131.7	1086.2	1056.8	1010.5	982.4	973.8	975.1
5°	1223.0	1178.3	1090.2	1019.8	941.4	896.7	828.7	763.4	728.1	714.9	709.0
7.5°	1115.9	1068.0	961.8	851.2	767.2	688.7	638.2	580.5	541.3	508.8	503.3
10°	1036.4	973.5	841.8	723.0	656.6	597.7	547.2	489.5	443.3	406.3	396.1
12.5°	988.8	918.4	771.4	671.9	609.0	548.4	482.6	416.0	368.6	328.7	310.2
15°	980.2	898.6	751.6	635.2	557.6	484.5	397.0	325.0	276.3	238.5	227.0
17.5°	1031.9	934.2	748.7	596.9	490.4	386.8	295.8	236.1	181.2	160.0	151.8
20°	1123.9	997.1	748.4	552.5	421.3	297.9	207.7	153.9	131.7	121.5	116.7
22.5°	1249.5	1082.7	762.6	514.2	349.6	219.8	148.3	122.6	109.8	101.4	99.6
25°	1402.9	1209.6	797.4	488.2	294.7	172.4	122.4	105.0	94.2	90.5	88.9
27.5°	1539.1	1331.1	835.7	461.5	255.3	152.6	113.5	96.1	87.5	84.6	82.2
30°	1656.6	1441.4	854.1	426.1	223.8	139.7	115.1	102.8	91.6	82.7	78.7
32.5°	1754.6	1526.0	866.1	394.0	197.0	114.3	91.0	79.5	74.4	71.2	68.5
35°	1877.2	1617.5	859.0	375.8	183.3	104.1	83.0	68.5	60.0	53.6	50.9
37.5°	2005.6	1709.1	846.4	360.8	177.2	96.6	79.0	65.0	55.7	48.9	45.5
40°	2138.7	1793.9	831.7	346.9	171.6	91.8	76.5	62.1	52.7	45.5	41.8
42.5°	2260.4	1876.6	825.8	337.8	162.5	92.6	74.7	60.7	49.8	42.3	39.1
45°	2359.0	1955.1	833.8	333.0	152.6	91.2	75.2	59.1	47.3	40.1	36.9
47.5°	2464.2	2065.9	859.8	328.2	143.0	84.9	79.2	58.9	46.3	38.9	35.3
50°	2586.5	2207.7	919.2	316.4	131.2	77.9	84.4	58.6	45.0	37.2	33.7
52.5°	2749.5	2368.8	980.4	295.8	114.0	71.2	80.6	57.8	42.3	35.3	31.9
55°	2895.9	2538.6	1032.4	271.4	92.3	61.6	72.6	54.3	37.8	32.1	28.9
57.5°	2956.5	2634.4	1030.8	237.7	73.8	54.1	59.7	49.8	32.9	28.3	25.7
59°	2934.2	2622.4	996.2	212.8	67.4	50.0	49.5	49.3	30.8	25.7	23.5
60°	2902.9	2578.5	959.1	200.5	63.4	47.3	45.5	48.7	28.9	24.1	22.0
62.5°	2783.0	2396.4	835.7	179.6	58.1	40.1	36.4	41.2	25.7	20.9	19.0
65°	2609.3	2116.7	707.4	173.8	56.5	33.2	30.3	29.4	22.0	17.7	16.1
67.5°	2270.4	1791.2	573.1	169.7	57.0	27.8	26.5	22.2	18.2	14.7	13.6
70°	1817.7	1396.7	469.2	165.2	57.5	22.8	22.2	17.7	14.7	12.3	11.3
72.5°	1104.4	827.9	369.4	143.5	55.9	18.2	19.8	13.4	10.7	8.8	8.3
75°	682.8	566.7	229.1	111.6	36.9	13.4	14.0	8.3	7.2	5.6	5.6
77.5°	395.6	357.8	81.9	40.1	16.3	8.0	6.1	4.3	4.0	2.4	2.4
80°	164.1	131.4	28.3	13.6	8.8	3.8	1.3	0.3	0.0	0.0	0.0
82.5°	47.9	42.6	7.7	6.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652176
 CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	952.3	943.5	939.6	953.2	940.6	956.6	944.4	949.7	965.5	972.4	990.4
5°	712.8	703.7	699.5	720.1	719.0	729.1	728.1	737.5	745.5	727.5	746.0
7.5°	496.5	490.4	500.6	516.6	533.7	528.1	528.1	515.5	519.8	517.1	516.4
10°	377.7	356.5	351.2	350.6	357.1	358.4	351.2	333.8	340.2	342.1	353.3
12.5°	297.1	280.8	255.9	244.6	241.7	244.1	220.3	205.0	212.3	208.0	219.0
15°	213.0	199.7	184.9	172.4	168.9	164.1	138.1	119.9	117.7	118.6	120.4
17.5°	152.1	143.0	143.0	129.5	122.4	107.9	94.8	86.7	86.0	86.7	88.1
20°	112.2	107.3	106.8	103.4	95.3	85.6	76.5	74.9	74.4	75.8	76.3
22.5°	96.6	91.6	87.3	87.0	79.5	71.5	67.2	65.0	65.3	65.9	67.2
25°	86.5	81.1	76.5	73.8	68.5	62.9	58.9	57.8	57.8	58.6	58.9
27.5°	79.2	72.6	68.5	64.8	60.0	55.2	51.6	50.9	50.3	50.9	52.2
30°	74.2	67.4	62.4	56.8	53.0	48.4	45.5	44.4	44.2	44.4	45.5
32.5°	63.4	59.5	55.4	50.3	45.8	42.8	39.6	37.8	37.8	38.3	39.4
35°	47.9	45.8	45.5	44.2	40.5	37.2	33.5	31.6	31.6	32.6	33.2
37.5°	42.3	38.3	37.8	37.2	35.6	31.3	27.8	26.2	26.0	26.7	27.8
40°	38.5	34.0	31.6	31.0	31.3	26.5	22.8	21.1	21.1	21.4	22.5
42.5°	35.6	30.3	26.0	25.4	26.5	22.2	18.5	16.9	16.9	16.9	18.2
45°	33.2	27.0	22.0	19.3	20.9	18.2	15.0	13.4	12.9	13.4	14.0
47.5°	31.6	24.6	19.3	15.6	15.6	14.5	12.0	10.2	9.7	9.9	10.7
50°	30.3	22.5	16.3	12.6	11.3	11.5	9.1	7.7	7.2	7.2	8.0
52.5°	28.1	20.4	14.2	10.7	8.6	7.7	6.7	5.6	5.4	5.6	6.1
55°	25.4	18.5	12.3	8.8	6.7	5.4	4.8	4.0	3.8	4.0	4.8
57.5°	22.5	15.6	9.9	7.0	4.5	3.4	3.2	2.7	2.1	2.4	2.9
59°	20.6	14.0	8.6	5.6	3.4	2.4	2.4	1.9	1.3	1.6	2.4
60°	19.8	12.9	7.2	4.8	2.9	1.9	1.9	1.3	0.8	1.1	1.9
62.5°	16.9	10.7	5.6	2.9	1.3	0.3	0.8	0.3	0.0	0.3	0.8
65°	14.2	8.6	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	11.8	6.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652176
 CATALOG NUMBER: GALN-SA1B-840-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5	1177.5
2.5°	991.5	1029.7	1053.3	1097.8	1143.3	1178.3	1222.2	1261.5	1277.9	1286.4
5°	764.7	818.0	863.2	931.0	993.9	1070.4	1148.0	1239.5	1274.6	1283.8
7.5°	536.6	591.1	638.4	716.8	806.5	909.0	1025.2	1141.3	1192.5	1206.9
10°	387.6	445.6	503.5	581.9	665.7	776.7	897.8	1041.5	1100.4	1111.6
12.5°	244.6	307.0	401.0	497.9	586.4	675.8	802.5	958.8	1023.8	1044.4
15°	141.9	188.5	259.4	385.7	498.4	616.7	754.8	927.7	1000.5	1021.7
17.5°	95.0	111.1	159.8	256.4	405.3	562.1	742.8	953.2	1033.8	1060.8
20°	80.1	87.3	104.4	156.3	312.1	513.4	746.0	1022.2	1127.9	1161.7
22.5°	70.4	77.1	88.1	112.4	217.9	452.9	761.3	1121.0	1257.5	1300.6
25°	62.1	68.8	78.5	93.2	146.4	383.1	794.7	1265.5	1429.1	1476.5
27.5°	55.2	61.3	69.6	82.2	112.7	305.1	824.4	1406.3	1585.7	1624.2
30°	48.7	53.8	61.8	71.5	93.7	235.3	839.4	1529.4	1699.7	1742.6
32.5°	42.3	47.1	54.8	62.7	77.1	179.3	829.0	1619.9	1810.5	1837.8
35°	36.2	41.2	47.7	54.8	66.7	144.8	776.7	1721.7	1925.4	1946.7
37.5°	31.0	35.3	42.0	47.7	60.2	115.9	713.6	1813.2	2054.1	2084.9
40°	26.2	30.5	37.2	42.3	55.4	91.2	656.6	1915.0	2189.8	2227.8
42.5°	21.4	26.5	32.4	40.7	47.7	69.6	587.5	1997.4	2291.8	2339.4
45°	17.2	22.8	29.2	40.5	41.5	53.0	520.9	2061.6	2382.0	2424.9
47.5°	13.6	19.3	28.1	37.8	34.0	42.0	482.9	2128.8	2457.0	2491.2
50°	10.9	16.1	29.4	33.2	28.3	35.6	481.8	2203.8	2495.8	2518.5
52.5°	8.8	13.1	24.9	25.4	24.1	31.3	510.7	2288.0	2535.4	2554.1
55°	7.5	10.9	16.3	18.8	21.7	28.3	532.4	2417.9	2629.9	2647.6
57.5°	5.9	9.3	12.6	15.0	19.3	26.0	535.4	2518.0	2749.5	2761.0
59°	5.0	8.0	11.3	13.4	17.7	24.4	523.3	2524.2	2757.3	2775.7
60°	4.3	7.2	9.9	12.6	16.3	23.0	510.2	2479.4	2728.4	2749.0
62.5°	3.2	5.6	7.2	10.2	13.4	19.8	448.1	2323.3	2617.8	2632.2
65°	2.1	4.0	5.4	7.5	10.4	17.2	365.1	2121.0	2447.1	2479.4
67.5°	1.3	2.9	4.3	5.6	8.6	14.5	260.2	1818.8	2208.0	2228.9
70°	0.8	1.9	3.2	4.5	6.7	11.5	154.4	1437.7	1837.0	1841.3
72.5°	0.5	1.3	2.1	3.2	5.4	10.4	74.9	937.1	1341.3	1392.4
75°	0.3	0.8	1.3	2.4	4.3	8.6	35.8	626.0	975.9	990.6
77.5°	0.0	0.3	0.8	1.6	3.2	6.7	20.9	411.2	665.4	680.7
80°	0.0	0.0	0.5	1.3	2.4	4.3	12.6	242.5	403.1	410.6
82.5°	0.0	0.0	0.3	1.1	1.6	3.2	6.4	106.6	263.9	266.6
85°	0.0	0.0	0.3	1.1	1.3	2.1	2.4	14.5	117.2	119.4
87.5°	0.0	0.0	0.3	1.3	1.3	1.3	1.3	0.8	9.9	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)